

# SUBMERSIBLE FLAT CABLE



Since 1969  
**Unnati**<sup>®</sup>



## “UNNATI” BRAND SUBMERSIBLE CABLE

### CABLE STRUCTURE

- Generally conforms to, IS 694, IEC 60227
- **Copper:** EC grade flexible copper conductor generally conforms to IEC 60228, IS 8131
- **Insulation:** PVC insulation compound TI-1

### CABLE FEATURES

- Excellent insulating electrical & mechanical properties.
- Abrasion - oil & Moisture resistant.
- Operates at unfriendly field conditions dry or wet.
- Durable & Long lasting

### TECHNICAL DATA

- Operating Temp : -20°C to max. +80°C
- Nominal voltage : 1100 V
- Test voltage : 3000 V
- Min. bending radius : 6 x cable diameter
- Flame retardant test: As per IEC 60332-1

### APPLICATIONS

PVC Flat - 3 Core Unnati submersible flat cable ideal for submersible pump set, under water lighting and floating switches etc. up to the depth of 500 m and water temperature up to +75°C. These cables are ideal for outer installations in dry, moist and wet environments.

Size	Nos. & Dia. Of wires	Nom. Insu. Thickness	Nom. Sheath. Thickness	Core Dia.	Cable Dia.		C.R at 20° C	Current Rating at 40° C
					Height	Width		
Sq. mm	Nos.	mm	mm	mm	mm	mm	ohm/km	Amps.
0.5	16/0.2	0.6	0.9	2.2	4.3	8.9	39	4
0.75	24/0.2	0.6	0.9	2.45	4.5	9.5	26	7
1	14/0.3	0.6	0.9	2.7	4.7	10.2	18.1	12
1.5	22/0.3	0.6	0.9	2.8	4.9	10.5	12.1	14
2.5	36/0.3	0.7	1	3.5	5.7	12.6	7.41	18
4	56/0.3	0.8	1	4.1	6.6	14.8	4.95	26
6	84/0.3	0.8	1.1	5.1	7.4	17.7	3.3	31
10	140/0.3	1	1.4	6.3	9.3	22.3	1.91	42
16	224/0.3	1	1.4	7.5	10.8	26.3	1.21	57
25	350/0.3	1.2	2	10.1	14.7	35.5	0.78	72
35	490/0.3	1.2	2	11.3	16.8	39.5	0.554	90
50	703/0.3	1.4	2.2	13.5	18	45.5	0.386	115
70	988/0.3	1.4	2.2	15.3	21	51	0.272	143
95	1349/0.3	1.6	2.4	18	23.5	60	0.206	165

- The Dia. of Wire is such that to meet the Conductor Resistance Requirement. For continuous improvement we will change it but meet the requirement of conductor resistance as per IS-8130.
- Tolerance : Up to 4.00 Sq. mm +/- 0.5 mm. 6.0 Sq. mm & 10 Sq. mm +/- 1.0 mm and Above 10 Sq. mm +/- 1.2 mm
- Conductor Resistance of 1,1.5 & 2.5 has Class-2 except that size Conductor Resistance as per Class-5 of IS - 8130
- The design & data given in this brochure is indicative only and may differ with actual product due to continuous upgradation.



*“Together we can do it  
Together we have always done it”*

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